

# SEQUENCE LISTING

<110> Wallach et al.

<120> Anti-NIK Antibodies and Uses Thereof

<130> 30694/41889

<150> PCT/IL2004/000921

<151> 2004-10-05

<150> IL 158287

<151> 2003-10-07

<160> 22

<170> PatentIn version 3.3

<210> 1

<211> 17

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic peptide

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Asp Val Ile Thr Lys Gly Thr Ala Lys Glu Gly Ser Glu Ala Gly Pro  
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Ala

<210> 2

<211> 14

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Cys Glu Asn Ser Gln Glu Phe Ser Pro Thr Phe Ser Glu Arg  
1 5 10

<210> 3

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Lys Gly Lys Arg Arg Ser Lys Ala Arg Lys Lys Arg Lys Lys Lys Ser  
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Glu Gly Leu Arg Pro Ala Leu Pro Arg Ser Glu Leu His Lys  
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Arg Gly Ser Arg Ser Arg Glu Pro Ser Pro Lys Thr Glu Asp Asn Glu  
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Lys Leu Lys Pro Val Asp Tyr Glu Tyr Arg Glu Glu Val His  
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Arg Leu Gly Arg Gly Ser Phe Gly Glu Val His Arg Met Glu Asp Lys  
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Cys Ala Val Lys Lys Val Arg Leu Glu Val Phe Arg Ala Glu Glu Leu  
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<210> 9

<211> 15

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<400> 9

Arg Arg Ile Leu His Gly Asp Val Lys Ala Asp Asn Val Leu Leu  
1 5 10 15

<210> 10

<211> 15

<212> PRT

<213> Artificial sequence

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Cys Leu Lys Ile Ala Ser Glu Pro Pro Pro Val Arg Glu Ile Pro  
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<210> 11

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<400> 11

Arg Lys Glu Pro Ile His Arg Val Ser Ala Ala Glu Leu Gly Gly Lys  
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<210> 12

<211> 16

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<400> 12

Arg Gly Glu Tyr Lys Glu Pro Arg His Pro Pro Pro Asn Gln Ala Asn  
1 5 10 15

<210> 13

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<400> 13

Arg Ala Pro Gly Pro Arg Pro Ala Glu Glu Thr Thr Gly Arg Ala Pro  
1 5 10 15

Lys

<210> 14  
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<400> 14

Glu Pro Pro Glu Pro Asn Lys Ser Pro Pro Leu Thr Leu Ser Lys Glu  
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Glu

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Pro Ala Arg Asn Pro Ser Ser Pro Glu Arg Lys Ala Thr Val Pro Glu  
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<210> 16  
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<220>  
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<400> 16

Glu Leu Gln Gln Leu Glu Ile Glu Leu Phe Leu Asn Ser Leu Ser  
1 5 10 15

<210> 17  
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<400> 17

Asp Asp Ser Glu Lys Asn Pro Ser Lys Ala Ser Gln Ser Ser Arg Asp  
1 5 10 15

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<400> 18

Glu Ala Arg Ser Ser Ser Trp Asn Met Val Leu Ala Arg Gly Arg Pro  
1 5 10 15

<210> 19  
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<400> 19

Glu His Leu His Ile Arg Glu Phe His Arg Val Lys Val Gly Asp  
1 5 10 15

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Lys Asp Gly Gln Pro Val Arg Tyr Asp Met Glu Val Pro Asp  
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<400> 21

Met Ala Val Met Glu Met Ala Cys Pro Gly Ala Pro Gly Ser Ala Val  
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Gly Gln Gln Lys Glu Leu Pro Lys Pro Lys Glu Lys Thr Pro Pro Leu  
20 25 30

Gly Lys Lys Gln Ser Ser Val Tyr Lys Leu Glu Ala Val Glu Lys Ser  
35 40 45

Pro Val Phe Cys Gly Lys Trp Glu Ile Leu Asn Asp Val Ile Thr Lys  
50 55 60

Gly Thr Ala Lys Glu Gly Ser Glu Ala Gly Pro Ala Ala Ile Ser Ile  
65 70 75 80

Ile Ala Gln Ala Glu Cys Glu Asn Ser Gln Glu Phe Ser Pro Thr Phe  
85 90 95

Ser Glu Arg Ile Phe Ile Ala Gly Ser Lys Gln Tyr Ser Gln Ser Glu  
100 105 110

Ser Leu Asp Gln Ile Pro Asn Asn Val Ala His Ala Thr Glu Gly Lys  
115 120 125

Met Ala Arg Val Cys Trp Lys Gly Lys Arg Arg Ser Lys Ala Arg Lys  
130 135 140

Lys Arg Lys Lys Lys Ser Ser Lys Ser Leu Ala His Ala Gly Val Ala  
145 150 155 160

Leu Ala Lys Pro Leu Pro Arg Thr Pro Glu Gln Glu Ser Cys Thr Ile  
165 170 175

Pro Val Gln Glu Asp Glu Ser Pro Leu Gly Ala Pro Tyr Val Arg Asn  
180 185 190

Thr Pro Gln Phe Thr Lys Pro Leu Lys Glu Pro Gly Leu Gly Gln Leu  
195 200 205

Cys Phe Lys Gln Leu Gly Glu Gly Leu Arg Pro Ala Leu Pro Arg Ser  
210 215 220

Glu Leu His Lys Leu Ile Ser Pro Leu Gln Cys Leu Asn His Val Trp  
225 230 235 240

Lys Leu His His Pro Gln Asp Gly Gly Pro Leu Pro Leu Pro Thr His

				245				250				255			
Pro	Phe	Pro	Tyr 260	Ser	Arg	Leu	Pro	His 265	Pro	Phe	Pro	Phe	His 270	Pro	Leu
Gln	Pro	Trp 275	Lys	Pro	His	Pro	Leu 280	Glu	Ser	Phe	Leu	Gly 285	Lys	Leu	Ala
Cys	Val 290	Asp	Ser	Gln	Lys	Pro 295	Leu	Pro	Asp	Pro	His 300	Leu	Ser	Lys	Leu
Ala 305	Cys	Val	Asp	Ser	Pro 310	Lys	Pro	Leu	Pro	Gly 315	Pro	His	Leu	Glu	Pro 320
Ser	Cys	Leu	Ser	Arg 325	Gly	Ala	His	Glu	Lys 330	Phe	Ser	Val	Glu	Glu 335	Tyr
Leu	Val	His	Ala 340	Leu	Gln	Gly	Ser	Val 345	Ser	Ser	Ser	Gln	Ala 350	His	Ser
Leu	Thr 355	Ser	Leu	Ala	Lys	Thr	Trp 360	Ala	Ala	Arg	Gly	Ser 365	Arg	Ser	Arg
Glu	Pro 370	Ser	Pro	Lys	Thr	Glu 375	Asp	Asn	Glu	Gly	Val 380	Leu	Leu	Thr	Glu
Lys 385	Leu	Lys	Pro	Val	Asp 390	Tyr	Glu	Tyr	Arg	Glu 395	Glu	Val	His	Trp	Ala 400
Thr	His	Gln	Leu	Arg 405	Leu	Gly	Arg	Gly	Ser 410	Phe	Gly	Glu	Val	His 415	Arg
Met	Glu	Asp	Lys 420	Gln	Thr	Gly	Phe	Gln 425	Cys	Ala	Val	Lys	Lys 430	Val	Arg
Leu	Glu	Val 435	Phe	Arg	Ala	Glu	Glu 440	Leu	Met	Ala	Cys	Ala 445	Gly	Leu	Thr
Ser	Pro 450	Arg	Ile	Val	Pro	Leu 455	Tyr	Gly	Ala	Val	Arg 460	Glu	Gly	Pro	Trp
Val 465	Asn	Ile	Phe	Met	Glu 470	Leu	Leu	Glu	Gly	Gly 475	Ser	Leu	Gly	Gln	Leu 480
Val	Lys	Glu	Gln 485	Gly	Cys	Leu	Pro	Glu	Asp 490	Arg	Ala	Leu	Tyr	Tyr 495	Leu

Gly Gln Ala Leu Glu Gly Leu Glu Tyr Leu His Ser Arg Arg Ile Leu  
 500 505 510

His Gly Asp Val Lys Ala Asp Asn Val Leu Leu Ser Ser Asp Gly Ser  
 515 520 525

His Ala Ala Leu Cys Asp Phe Gly His Ala Val Cys Leu Gln Pro Asp  
 530 535 540

Gly Leu Gly Lys Ser Leu Leu Thr Gly Asp Tyr Ile Pro Gly Thr Glu  
 545 550 555 560

Thr His Met Ala Pro Glu Val Val Leu Gly Arg Ser Cys Asp Ala Lys  
 565 570 575

Val Asp Val Trp Ser Ser Cys Cys Met Met Leu His Met Leu Asn Gly  
 580 585 590

Cys His Pro Trp Thr Gln Phe Phe Arg Gly Pro Leu Cys Leu Lys Ile  
 595 600 605

Ala Ser Glu Pro Pro Pro Val Arg Glu Ile Pro Pro Ser Cys Ala Pro  
 610 615 620

Leu Thr Ala Gln Ala Ile Gln Glu Gly Leu Arg Lys Glu Pro Ile His  
 625 630 635 640

Arg Val Ser Ala Ala Glu Leu Gly Gly Lys Val Asn Arg Ala Leu Gln  
 645 650 655

Gln Val Gly Gly Leu Lys Ser Pro Trp Arg Gly Glu Tyr Lys Glu Pro  
 660 665 670

Arg His Pro Pro Pro Asn Gln Ala Asn Tyr His Gln Thr Leu His Ala  
 675 680 685

Gln Pro Arg Glu Leu Ser Pro Arg Ala Pro Gly Pro Arg Pro Ala Glu  
 690 695 700

Glu Thr Thr Gly Arg Ala Pro Lys Leu Gln Pro Pro Leu Pro Pro Glu  
 705 710 715 720

Pro Pro Glu Pro Asn Lys Ser Pro Pro Leu Thr Leu Ser Lys Glu Glu  
 725 730 735

Ser Gly Met Trp Glu Pro Leu Pro Leu Ser Ser Leu Glu Pro Ala Pro  
 740 745 750



Ala Arg Asn Pro Ser Ser Pro Glu Arg Lys Ala Thr Val Pro Glu Gln  
755 760 765

Glu Leu Gln Gln Leu Glu Ile Glu Leu Phe Leu Asn Ser Leu Ser Gln  
770 775 780

Pro Phe Ser Leu Glu Glu Gln Glu Gln Ile Leu Ser Cys Leu Ser Ile  
785 790 795 800

Asp Ser Leu Ser Leu Ser Asp Asp Ser Glu Lys Asn Pro Ser Lys Ala  
805 810 815

Ser Gln Ser Ser Arg Asp Thr Leu Ser Ser Gly Val His Ser Trp Ser  
820 825 830

Ser Gln Ala Glu Ala Arg Ser Ser Ser Trp Asn Met Val Leu Ala Arg  
835 840 845

Gly Arg Pro Thr Asp Thr Pro Ser Tyr Phe Asn Gly Val Lys Val Gln  
850 855 860

Ile Gln Ser Leu Asn Gly Glu His Leu His Ile Arg Glu Phe His Arg  
865 870 875 880

Val Lys Val Gly Asp Ile Ala Thr Gly Ile Ser Ser Gln Ile Pro Ala  
885 890 895

Ala Ala Phe Ser Leu Val Thr Lys Asp Gly Gln Pro Val Arg Tyr Asp  
900 905 910

Met Glu Val Pro Asp Ser Gly Ile Asp Leu Gln Cys Thr Leu Ala Pro  
915 920 925

Asp Gly Ser Phe Ala Trp Ser Trp Arg Val Lys His Gly Gln Leu Glu  
930 935 940

Asn Arg Pro  
945

<210> 22  
<211> 281  
<212> PRT  
<213> Artificial sequence

<220>  
<223> Synthetic peptide

<400> 22

Thr His Gln Leu Arg Leu Gly Arg Gly Ser Phe Gly Glu Val His Arg

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Leu	Glu	Val	Phe	Arg	Ala	Glu	Glu	Leu	Met	Ala	Cys	Ala	Gly	Leu	Thr		
		35					40					45					
Ser	Pro	Arg	Ile	Val	Pro	Leu	Tyr	Gly	Ala	Val	Arg	Glu	Gly	Pro	Trp		
	50					55					60						
Val	Asn	Ile	Phe	Met	Glu	Leu	Leu	Glu	Gly	Gly	Ser	Leu	Gly	Gln	Leu		
65					70					75					80		
Val	Lys	Glu	Gln	Gly	Cys	Leu	Pro	Glu	Asp	Arg	Ala	Leu	Tyr	Tyr	Leu		
				85					90					95			
Gly	Gln	Ala	Leu	Glu	Gly	Leu	Glu	Tyr	Leu	His	Ser	Arg	Arg	Ile	Leu		
			100					105						110			
His	Gly	Asp	Val	Lys	Ala	Asp	Asn	Val	Leu	Leu	Ser	Ser	Asp	Gly	Ser		
		115					120						125				
His	Ala	Ala	Leu	Cys	Asp	Phe	Gly	His	Ala	Val	Cys	Leu	Gln	Pro	Asp		
	130					135					140						
Gly	Leu	Gly	Lys	Ser	Leu	Leu	Thr	Gly	Asp	Tyr	Ile	Pro	Gly	Thr	Glu		
145					150					155					160		
Thr	His	Met	Ala	Pro	Glu	Val	Val	Leu	Gly	Arg	Ser	Cys	Asp	Ala	Lys		
				165					170					175			
Val	Asp	Val	Trp	Ser	Ser	Cys	Cys	Met	Met	Leu	His	Met	Leu	Asn	Gly		
			180					185					190				
Cys	His	Pro	Trp	Thr	Gln	Phe	Phe	Arg	Gly	Pro	Leu	Cys	Leu	Lys	Ile		
		195					200					205					
Ala	Ser	Glu	Pro	Pro	Pro	Val	Arg	Glu	Ile	Pro	Pro	Ser	Cys	Ala	Pro		
	210					215					220						
Leu	Thr	Ala	Gln	Ala	Ile	Gln	Glu	Gly	Leu	Arg	Lys	Glu	Pro	Ile	His		
225					230					235					240		
Arg	Val	Ser	Ala	Ala	Glu	Leu	Gly	Gly	Lys	Val	Asn	Arg	Ala	Leu	Gln		
				245					250					255			

Gln Val Gly Gly Leu Lys Ser Pro Trp Arg Gly Glu Tyr Lys Glu Pro  
260 265 270

Arg His Pro Pro Pro Asn Gln Ala Asn  
275 280